



GEOLOGY AND PALEONTOLOGY  
OF THE MIOCENE  
SINAP FORMATION, TURKEY



EDITORS

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# Geology And Paleontology Of The Miocene Sinap Formation Turkey

**Martin N. Muller, Richard W.  
Wrangham, David R. Pilbeam**



## **Geology And Paleontology Of The Miocene Sinap Formation Turkey:**

Geology and Paleontology of the Miocene Sinap Formation, Turkey Mikael Fortelius, 2003 The Sinap Formation in central Turkey near the city of Ankara preserves a rich record of mammalian evolution from about 15 to 5 million years ago and is one of the few sites in this region that also has fossil apes It is unique among other fossil localities from Europe to Western Asia in that it has a thick stratigraphic section and preserves a long record of geological time The authors have been able to piece together a detailed record of faunal change and by adding paleomagnetic and radiometric dating techniques have produced a chronostratigraphy for the Formation Because of the dual importance of the rich record of the fossils and the dating of the sediments the editors have been able to attract some of the leading authorities on Eurasian Neogene paleontology and geology to contribute to this reference work The results from the Sinap Formation will be the template against which other sites from Europe to Asia are compared Books on Turkey ,2005

**Paleontology and Geology of Laetoli: Human Evolution in Context** Terry Harrison, 2011-01-27 This volume 2 and its companion volume 1 present the results of new investigations into the geology paleontology and paleoecology of the early hominin site of Laetoli in northern Tanzania The site is one of the most important paleontological and paleoanthropological sites in Africa worldrenowned for the discovery of fossils of the early hominin Australopithecus afarensis as well as remarkable trails of its footprints The first volume provides new evidence on the geology geochronology ecology ecomorphology and taphonomy of the site The second volume describes newly discovered fossil hominins from Laetoli belonging to Australopithecus afarensis and Paranthropus aethiopicus and presents detailed information on the systematics and paleobiology of the diverse associated fauna Together these contributions provide one of the most comprehensive accounts of a fossil hominin site and they offer important new insights into the early stages of human evolution and its context Evolution and Fossil Record of African Proboscidea

William J. Sanders, 2023-08-25 This book details the long diverse and complex phylogenetic history of elephants and their fossil relatives the Proboscidea whose origin is deeply embedded some 60 million years ago in Africa Most of the major evolutionary events of proboscideans occurred in Africa and these are examined in their geological paleoecological geographic and faunal contexts Updated information about feeding adaptations taxonomy and systematics genetics and site occurrences is included and summarized in tables figures and charts This is the first comprehensive review of African proboscideans and illustrates the need to more actively protect elephants and ensure their survival in modern ecosystems Key Features Provides a comprehensive systematic review of the African proboscidean fossil record Includes a summary of taxonomy geochronology biogeography and morphology Documents major faunal events including those associated with hominin origins Synthesizes new data from genomic isotopic and microware analyses Emphasizes the role of elephants in ecosystems and the importance of conservation **Ardipithecus kadabba** Yohannes Haile-Selassie, Giday

WoldeGabriel, 2023-12-22 The second volume in a series dedicated to fossil discoveries made in the Afar region of Ethiopia

this work contains the definitive description of the geological context and paleoenvironment of the early hominid *Ardipithecus kadabba*. This research by an international team describes Middle Awash late Miocene faunal assemblages recovered from sediments firmly dated to between 5.2 and 5.8 million years ago. Compared to other assemblages of similar age, the Middle Awash record is unparalleled in taxonomic diversity, composed of 2,760 specimens representing at least sixty-five mammalian genera. This comprehensive evaluation of the vertebrates from the end of the Miocene in Africa provides detailed morphological and taxonomic descriptions of dozens of taxa, including species new to science. It also incorporates results from analyses of paleoenvironment, paleobiogeography, biochronology, and faunal turnover around the Pliocene-Miocene boundary, opening a new window on the evolution of mammals, African fauna, and its environments.

The second volume in a series dedicated to fossil discoveries made in the Afar region of Ethiopia, this work contains the definitive description of the geological context and paleoenvironment of the early hominid *Ardipithecus kadabba*. This research *The Geologic Time Scale 2012* F. M. Gradstein, 2012-08-14. The Geologic Time Scale 2012 winner of a 2012 PROSE Award, Honorable Mention for Best Multi-volume Reference in Science from the Association of American Publishers, is the framework for deciphering the history of our planet Earth. The authors have been at the forefront of chronostratigraphic research and initiatives to create an international geologic time scale for many years, and the charts in this book present the most up-to-date international standard as ratified by the International Commission on Stratigraphy and the International Union of Geological Sciences. This 2012 geologic time scale is an enhanced, improved, and expanded version of the GTS2004, including chapters on planetary scales, the Cryogenian-Ediacaran periods, systems, a prehistory scale of human development, a survey of sequence stratigraphy, and an extensive compilation of stable isotope chemostratigraphy. This book is an essential reference for all geoscientists, including researchers, students, and petroleum and mining professionals. The presentation is non-technical and illustrated with numerous colour charts, maps, and photographs. The book also includes a detachable wall chart of the complete time scale for use as a handy reference in the office, laboratory, or field. The most detailed international geologic time scale available that contextualizes information in one single reference for quick desktop access. Gives insights in the construction, strengths, and limitations of the geological time scale that greatly enhances its function and its utility. Aids understanding by combining with the mathematical and statistical methods to scaled composites of global succession of events. Meets the needs of a range of users at various points in the workflow: researchers extracting linear time from rock records, students recognizing the geologic stage by their content. *Homo erectus* W. Henry Gilbert, Berhane Asfaw, 2009-02-04. This volume, the first in a series devoted to the paleoanthropological resources of the Middle Awash Valley of Ethiopia, studies *Homo erectus*, a close relative of *Homo sapiens*. Written by a team of highly regarded scholars, this book provides the first detailed descriptions, photographs, and analysis of the fossil vertebrates from elephants and hyenas to humans from the Daka Member of the Bouri Formation of the Afar, a place renowned for an abundant and lengthy record of

human ancestors These fossils contribute to our understanding human evolution and the associated fauna provide new information about the distribution and variability of Pleistocene mammals in eastern Africa The contributors are all active researchers who worked on the paleontology and geology of these unique deposits Here they have combined their disparate efforts into a single volume making the original research results accessible to both the specialist and the general reader The volume synthesizes environmental backdrop and anatomical detail to open an unparalleled window on the African Pleistocene and its inhabitants

**At the Foot of the Himalayas** Catherine Badgley, Michèle E. Morgan, David Pilbeam, 2025-01-28 This authoritative volume brings together decades of insights from one of the longest terrestrial fossil records on the planet The fabled Himalayas have isolated and sheltered the Indian subcontinent for millions of years The Siwalik sequence of sediments at their feet has been a treasure trove of visions into the past for generations of paleontologists preserving an immense 20 million years of terrestrial ecosystems fossil record The Siwalik sequence reveals a unique forest wonderland of diverse animal species from huge elephant relatives great rhinos and sabertooth cats to mongooses swamp rats crocodiles and catfish Regional climate change eventually caused this forest ecosystem to unravel as grasslands replaced the forests and established the habitats and animals of the modern ecosystems of the Indus and Ganges rivers In At the Foot of the Himalayas celebrated paleontologists Catherine Badgley Michèle Morgan and David Pilbeam bring together a collection of world renowned scholars to present an interdisciplinary approach to documenting and interpreting this fossil record By investigating changes in landscape climate and vertebrate species diversity their analysis reveals insights into a central question about biodiversity which evolutionary developments were influenced by changes in climate and which were caused by interactions among the species themselves This groundbreaking book illuminates for the first time a mysterious and vibrant paleontological past bringing together more than 40 years of exciting international collaborative studies that forge invaluable knowledge pathways for the ecologists evolutionary scientists and paleontologists of the future and pose important questions about our fragile ecosystems in the present day

Evolution of Cenozoic Land Mammal Faunas and Ecosystems Isaac Casanovas-Vilar, Lars W. van den Hoek Ostende, Christine M. Janis, Juha Saarinen, 2023-08-08 This volume presents an array of different case studies which take as primary material data sourced from the NOW New and Old Worlds database of fossil mammals The NOW database was one of the very first large paleobiological databases and since 1996 it has been expanded from including mainly Neogene European land mammals to cover the entire Cenozoic at a global scale In the last two decades the number of works that are based in the use of huge databases to explore ecological and evolutionary questions has increased exponentially and even though the importance of big data in paleobiological research has been outlined in selected chapters of general works no volume has appeared before this one which solely focuses on the databases as a primary source in reconstructing the past The purpose of this book is to provide an illustrative volume showing the importance of big data in paleobiological research and presenting a broad array of unpublished examples and case studies

The book is mainly aimed to professional palaeobiologists working with Cenozoic land mammals but the scope of the book is broad enough to fit the interest for evolutionary biologists paleoclimatologists and paleoecologists The volume is divided in four parts The first part includes two chapters on the development of large paleobiological databases providing a first hand account on the logic and the functioning of these databases This is a much needed perspective which is ignored by most researchers and users of such databases and even if centered in the NOW database the lessons that can be learned from this part can be extended to other examples After this introductory part the body of the book follows and is divided into three parts patterns in regional faunas large scale patterns and processes and ecological biogeographical and evolutionary patterns of key taxa Each chapter is written by well known specialists in the field with some participation of members of the NOW advisory board The array of selected mammal taxa ranges from carnivores equids ruminants and rodents to the genus Homo The topics studied also include the diversification and radiation of major clades large scale paleobiogeographical patterns the evolution of ecomorphological patterns and paleobiological problems such as evolution of body size or species longevity In most cases the results are discussed in relation to protracted environmental or paleogeographic changes

### **Examining Evolutionary Trends in Equus and its Close Relatives from Five Continents** Raymond Louis

Bernor, Gina Marie Semprebon, Florent Rivals, Leonardo Santos Avilla, Eric Scott, 2020-03-12 Evolution of the horse has been an often cited primary example of evolution as well as one of the classic and important stories in paleontology for over a century and a half due to their rich fossil record across 5 continents North America South America Europe Asia and Africa The recent horse has served a profound role in human ancestry including agriculture commerce sport transport warfare and in prehistory for the subsistence of humans Many studies have examined the evolution of the Equidae and chronicled the striking changes in skulls dentition limbs and body size which have long been perceived to be a response to environmental shifts through time Most comprehensive studies heretofore have 1 focused on the Great Transformation changes that occurred in the early Miocene 2 involved tracking long term diversity or paleoecological trends on a single continent or within a geographical locality or 3 concentrated on the 3 toed hipparions The Plio Pleistocene evolutionary stage of horse evolution is punctuated by the great climatic fluctuations of the Quaternary beginning 2.6 Ma which influenced Equus evolution biogeographic dispersion and adaptation on a nearly global scale The evolutionary biology of Equus evolution across its entire range remains relatively poorly understood and often highly controversial Some of this lack of understanding is due to assumptions that have arisen because of the relatively derived craniodental and postcranial anatomy of Equus and its close relatives which has seemed to imply that that these forms occupied relatively homogenous and narrow dietary and locomotor niches notions that have not been adequately addressed and rigorously tested Other challenges have revolved around teasing apart environmentally driven adaptation versus phylogenetically defined morphological change Geochronologic age control of localities geographic provinces and continents has improved but in no way is absolute and can

be reexamined in our proposed volume Temporal resolution for paleodietary paleohabitat and paleoecological interpretations are also challenging for understanding the evolution of Equus Our proposed volume attempts to assemble a group of experts who will address multiple dimensions of Equus evolution in time and space *Fossil Vertebrates of Greece Vol. 1* Evangelos Vlachos, 2021-12-07 This 2 volume set provides a state of the art study of the fossil record and taxonomy of the main vertebrate groups from Greece Greece stands between 3 continents and its vertebrate fossil record is of great importance for paleontological and evolutionary studies in Europe Asia and Africa Fossils from classic world famous localities e g Pikermi Samos form an essential part of the collections of the most important museums in the world and have been studied by numerous scientists Recent paleontological research led to the discovery and study of numerous new sites The volumes contain a taxonomic review of all named and identified taxa their taxonomic history and current status as well as historical phylogenetic and biogeographic information Volume 1 contains a synopsis of the fossil record and taxonomy of important groups of vertebrates represented in the fossil record of Greece The volume deals with some of the early splitting clades including the basal and enigmatic conodonts and basal tetrapods like fishes amphibians and reptiles like lizards snakes crocodiles turtles and tortoises The second part of the volume deals with basal mammalian clades some of which are quite characteristic for the fossil record of the country aardwarks hyraxes proboscideans elephants and mammoths sea cows rodents and lagomorphs The volume ends with special chapters on the primate fossil record of the country including some of our most recent and distant relatives *Fossil Mammals of Asia* Xiaoming Wang, Lawrence John Flynn, Mikael Fortelius, 2013 This book is on the emergence of mammals in Asia based largely on new fossil finds throughout Asia and cutting edge biostratigraphic and geochemical methods of dating the fossils and their geological substrate Provided by publisher

**Applications of Palaeontology** Robert Wynn Jones, 2011-08-18 Palaeontology the scientific study of fossils has developed from a descriptive science to an analytical science used to interpret relationships between Earth and life history This book provides a comprehensive and thematic treatment of applied palaeontology covering the use of fossils in the ordering of rocks in time and in space in biostratigraphy palaeobiology and sequence stratigraphy Robert Wynn Jones presents a practical workflow for applied palaeontology including sample acquisition preparation and analysis and interpretation and integration He then presents numerous case studies that demonstrate the applicability and value of the subject to areas such as petroleum mineral and coal exploration and exploitation engineering geology and environmental science Specialist applications outside of the geosciences including archaeology forensic science medical palynology entomopalynology and melissopalynology are also addressed Abundantly illustrated and referenced Applications of Palaeontology provides a user friendly reference for academic researchers and professionals across a range of disciplines and industry settings [Handbook of Paleoanthropology](#) Winfried Henke, Ian Tattersall, 2007-05-10 This 3 volume handbook brings together contributions by the world s leading specialists that reflect the broad spectrum of modern

palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives

**Chimpanzees and Human Evolution** Martin N. Muller, Richard W. Wrangham, David R. Pilbeam, 2017-11-27 Knowledge of wild chimpanzees has expanded dramatically This volume edited by Martin Muller Richard Wrangham and David Pilbeam brings together scientists who are leading a revolution to discover and explain human uniqueness by studying our closest living relatives Their conclusions may transform our understanding of human evolution *The Evolution of Artiodactyls* Donald R. Prothero, Scott E. Foss, 2007-12-17 Artiodactyls are diverse and successful hoofed mammals represented by nearly two hundred living species of pigs peccaries hippos camels deer sheep cattle giraffes and other even toed ungulates In the recent years a tremendous amount of research has been conducted on this important order The Evolution of Artiodactyls synthesizes this research into a single volume The authors explore a variety of topics including molecular phylogeny of terrestrial artiodactyls phylogenetic relationships of cetaceans to terrestrial artiodactyls and the earliest artiodactyls Diacodexidae Dichobunidae Homacodontidae Leptochoeridae and Raoellidae *The Ecology of Large Herbivores in South and Southeast Asia* Farshid Ahrestani, Mahesh Sankaran, 2016-04-02 Large terrestrial mammalian herbivores play critical roles in ecosystems by acting as regulators of energy and nutrient cycles modulators of plant community composition and grassland woodland transitions agents of seed dispersal and as prey for large carnivores Though large herbivores represent a prominent component of mammalian assemblages throughout South and Southeast Asia little is known about their roles in ecosystems in the region This volume presents for the first time a collection of studies on the ecology of the rich and diverse large herbivore assemblages of South and Southeast Asia Prepared by experts on herbivores of the region it covers a comprehensive range of topics including their evolutionary history behavioural nutritional and population ecology patterns of diversity across environmental gradients roles as seed dispersers and regulators of plant growth community compositions and their conservation in the face of hunting and global change Hominoid Evolution and Climatic Change in Europe: Volume 2 Louis de Bonis, George D. Koufos, Peter Andrews, 2001-05-03 What is the place of Europe in the origin of humankind While our earliest human ancestors may have come out of Africa many of our more recent ancestors and those of other primates left their fossil remains in Europe and the Near East Hominoid primates including Dryopithecus in Spain and Hungary Oreopithecus in Italy and Ouranopithecus in Greece flourished in the Miocene approximately 10 7 million years ago This volume examines these and other hominoid fossils found in Eurasia and discusses what we can learn using biostratigraphic and ecological frameworks In addition new methods of analyzing and visualizing fossil hominoids are



explored including CT based and computer assisted virtual reconstruction of fossils to allow three dimensional images of external and internal morphology of even fragmentary or distorted fossils This volume will be invaluable for practicing palaeoanthropologists and palaeontologists regardless of specialty      **A Companion to Paleoanthropology** David R. Begun, 2012-12-20 A Companion to Paleoanthropology presents a compendium of readings from leading scholars in the field that define our current knowledge of the major discoveries and developments in human origins and human evolution tracing the fossil record from primate and hominid origins to the dispersal of modern humans across the globe Represents an accessible state of the art summary of the entire field of paleoanthropology with an overview of hominid taxonomy Features articles on the key discoveries in ape and human evolution in cranial postcranial and brain evolution growth and development Surveys the breadth of the paleontological record from primate origins to modern humans Highlights the unique methods and techniques of paleoanthropology including dating and ecological methods and use of living primate data to reconstruct behavior in fossil apes and humans      *Information Technologies in the Research of Biodiversity* Igor Bychkov, Victor Voronin, 2019-03-13 This book offers a collection of papers presented at the First International Conference Information Technologies in the Research of Biodiversity that was held from 11 14 September 2018 in Irkutsk Russia Papers in this book cover areas of interaction of knowledge on biodiversity and information technologies The main topics include methods models software systems for the analysis of biodiversity data global data portals information and analytical systems on biodiversity application of remote methods in vegetation mapping theoretical fundamentals and organization technologies of the information and telecommunications infrastructures

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